

Dive No.	K 216	Date		2001/09/14
PI	Name		Affiliation	
Japanese	折橋裕二		東京大学地震研究所	
English	Yuji Orihashi		ERI, the University of Tokyo	
Specialty	Geochemistry, Petrochemistry, Geology			
Purpose	Geological observation and rock sampling on middle - upper slope of the northern Hana Ridge			
Area	Hana Ridge, east of Maui Island			
Site	Middle - upper slope of the southern Hana Ridge			
Landing	Latitude 20° 38.63 ' N	Longitude 155° 7.99 ' W	Time 09:12	Depth 3182 m
Leaving	20° 36.59 ' N	155° 8.18 ' W	14:35	2350 m
Dive Distance	3800 m	Deepest point		3182 m
Dive summary	<p>This dive traverse the middle to upper northern slope and two cones with E-W alignment of Hana Ridge in order to understand the overall geological structure of Hana ridge in addition to results of K212 and K214 dives. Broken pillow lavas exposed were observed to form “step structure”, partly covered with soft sediment and talus deposit from small scale landslides and/or debris flows in the northern slope (3141–2600 m water depth). Proceeding along dive track from 2660 m to 2440 m water depth, two cones with W-E alignment on the top of the Ridge were observed to consist of highly vesicular subrounded volcanic fragments, covered partly with soft sediment.</p> <p>In addition, an outcrop of the pillow lava with Mn-coating of 3 mm thickness was found near the top of the Ridge at 2519 m water depth.</p>			
Payload	One sample basket (divided by 9 boxes), 4 push core samplers			
Visual Records	VTR1, Still camera			
Sample	Rocks : 13 sites with 20 samples Cores : one			
Video ighlights	(1) 11:16 pillow lava (2) 12:18 northern slope of first cone (3) 14:12 northern slope of second cone			
Key words	Hana Ridge, pillow lava, volcanic cone			